LOGO Writer® GS

Apple IIGS® Computers

LCSI®

Turner Computer Lab

LogoWriter GS for Apple IIGS® Computers

This version of LogoWriter takes advantage of the enhanced memory and graphics in the GS. In most respects, it resembles LogoWriter 2.0 for IBM computers more than the version for Apple® computers. The file system primitives are like those in the ProDOS® version of LogoWriter except for minor differences.

You can use all the LogoWriter documentation with this version. The following describes the features in the new GS version that you should note.

Graphics and Color

LogoWriter GS has enhanced graphics, similar to LogoWriter 2.0 for IBM EGA graphics. This includes more colors, more shapes, and text color.

Colors

Number	Color
1	White
2	Aquamarine
3	Purple
4	Deep Red
5	Dark Blue
6	Brown
7	Dark Green
8	Dark Gray
9	Light Gray
10	Light Blue
11	Pink
12	Orange
13	Medium Blue (background color)
14	Yellow
15	Light Green

The Shapes Page

The Shapes page in LogoWriter GS has been enhanced so that shapes are easier to define. There are 90 shapes on the Shapes page, some of which are defined. The **cut, copy, paste, previous screen,** and **next screen** keys work on the front and the flip sides.

Note: The name of the shapes file is shapes.shp if you want to use **copyfile** to copy the shapes page onto another disk or into a new directory.

Border Color

The **setbg** command changes the background color only, but not the border of the screen. If you wish to change the border color, use the GS control panel.

Disappearing Turtle With Fill

The turtle disappears after a **fill** command, because it is the same color as the filled area. Use **setc** (set color) to see where the turtle is.

New Primitives

---

changecolor *number [n1 n2 n3]* command/2 inputs

A new primitive that changes the color assigned to the color *number* (first input) to the color composed of the intensities listed in the second input. The second input is a list of 3 numbers in order of *red, green, blue,* with intensities from 0 through 15. **Changecolor** affects any graphics and text already on the page with color numbers of the first input. Use **resetcolors** to reset all the colors back to their original colors.

Example:

```
setc 2          Sets the color to aquamarine.
fd 50
changecolor 2 [15 15 0]    The line becomes
                           yellow.
```


---

colorvalue *number* reporter/1 input

Reports a list of 3 numbers in order of *red, green, blue* corresponding to the color *number* given as input. See **changecolor.**

Example:

```
show colorvalue 1
[15 15 15]
```

---

fastturtle command/no inputs

Sets the turtle's drawing speed to its default speed.

---

resetcolors command/no inputs

A new primitive that cancels the effects of **changecolor** and resets all the colors back to their original colors.

Example:

```
changecolor 1 [0 15 15]
resetcolors
```

---

setc *number* command/1 input

Changes the color of the text cursor and the text to be printed on the page to color *number.*

---

slowturtle command/no inputs

Slows the turtle's drawing speed. When LogoWriter starts up, the drawing speed is set to **fastturtle.**

---

tc reporter/no inputs

Reports the text color underneath the text cursor.

LogoWriter GS File System

All the primitives described in the *LogoWriter Reference Guide*, in the chapter *ProDOS Primitives* in Section 2, work in LogoWriter GS. (In the *LogoWriter Quick Reference*, these are the primitives listed under ProDOS.) The only important difference is that you can now use the slash (/) as a delimiter in pathnames (like other ProDOS and GS/OS™-based software). You can also use the percent sign (%) as described in the definitions of these primitives.

Since LogoWriter GS has a different graphics system, its pages are formatted differently than LogoWriter 2.0 (ProDOS version) pages. In fact, the file format of LogoWriter GS pages is compatible with LogoWriter 2.0 IBM version. You can also access your LogoWriter ProDOS pages with LogoWriter GS. See the final section of this addendum.

Other differences in primitives include:

---

filelist reporter/no inputs

Reports the list of file names without the file type. There is now a new primitive called **filetype**.

---

filetype *name* reporter/ 1 input

A new primitive that reports the type of the named file:

page	LogoWriter page.
shapes	Shapes page.
text	Text file.
et	External type: LogoWriter 2.0 page in ProDOS (not GS) format.
dir	Directory.

Example:

```
show filetype "myfile
page
```


---

loadtext *name* command/1 input

In addition to loading an ASCII (text) file onto a page, can also load the front side of a LogoWriter page.

---

online reporter/no inputs

Reports the volume name plus a list of empty lists according to the number of devices connected to the computer.

Example:

```
show online
[/LogoWriter [ ] [ ] ]
```

There are 3 devices connected to the computer.

---

setslot, slot

These primitives are not defined since GS/OS does not support slots.

Memory Management

The amount of memory available in the GS version depends on your computer's memory. When you have more memory in the computer, there is significantly more memory available while you are running LogoWriter.

In order that you can use the memory as you wish, the total amount of memory available is shared between the front side of the page, the flip side, the command center, and the "workspace" (variables, **when** events, tools). This means that the limit is flexible for each of these elements, and you can decide to use all the memory for a long text on the front side if you wish. If you run out of space, you can free up some memory by erasing some text, procedures, or variables. Here is a list of the primitives which could free up some memory: **cc, ct, clearnames, cleartools, clearevents, cp, recycle.**

Note: Whenever you run out of space, type the commands for freeing up space in lower case letters.

"Stack Overflow" is a new error message. This message appears if LogoWriter is running a recursive program which is badly constructed. Check your program for multiple levels of recursion and/or multiple embedded instructions.

Other Features

Vertical Bar

Instead of using the backslash (\) to quote special characters (like spaces) that LogoWriter uses as delimiters, you must now use vertical bars (|). Any characters inside a pair of vertical bars are considered to be a character string, and can contain special characters which LogoWriter would use as delimiters.

Example:

```
print "|December 13, 1989.|
```

Spaces Around Infix Arithmetic Reporters

You must always put spaces around the infix arithmetic reporters. A side effect of this is that you can now write telephone numbers, and LogoWriter won't automatically insert spaces around the subtraction sign. You can use the slash (/) in a word as the delimiter for ProDOS pathnames, as well as using it as the division sign.

End of the Line

When you use the **eol** primitive or the **erase to end of line** keys, the cursor will move to the end of the physical line on the screen, instead of moving to where the **Return** key was pressed.

Primitive Changes

.version reporter/no inputs

Reports information on the printer setting as well as the version number.

---

word *word/list1 word/list2*
(**word** *word/list1 word/list2...*) reporter/2 inputs
If inside parentheses, one or many inputs.

Combines all of its inputs into one word and reports that word.

Note: In addition to taking words as inputs, **word** can now take lists as inputs.

Examples:

```
show word "super "man
superman
show (word "stick "it "together)
stickittogether
show word [super] [girl]
supergirl
```

Upgrading LogoWriter ProDOS Version Files

You can access your LogoWriter ProDOS format pages (LogoWriter 2.0) with LogoWriter GS, but the graphics on the page will be lost. You can never access a Shapes page of ProDOS format. The ProDOS format page appears on the Contents of LogoWriter GS with the page name in uppercase letters, and below all the GS pages. You can use **load**, **loadtext**, and **getpage** to access the page, or open the page from Contents.

To upgrade a LogoWriter ProDOS page to the GS, follow these steps.

1. Start up LogoWriter GS.

2. After the Contents of LogoWriter GS appears, insert the ProDOS format disk, and press **Escape**.

3. Select a page you want to upgrade. Press **Return**.

4. The ProDOS format page is loaded onto a new page (the ??? appears at the top). There are no graphics. Flip the page if you have procedures, and edit the procedures to run with LogoWriter GS; for example, put spaces around arithmetic reporters, adjust the colors.

5. When you are satisfied, take out the ProDOS format disk, and insert the LogoWriter GS disk. Name the page, and press **Escape**.

Repeat these steps for all the pages you want to upgrade. Unfortunately, you can't load a ProDOS format Shapes page in LogoWriter GS. You'll have to redefine new shapes using the LogoWriter GS version.

LOGO Writer® and LCSI® are registered trademarks of Logo Computer Systems Inc.

Apple, Apple IIGS, and ProDOS are registered trademarks and GS/OS is a trademark of Apple Computer, Inc.

Printed in Canada
11-89